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HISTORIC AMERICAN ENGINEERING RECORD

INDEX TO PHOTOGRAPHS

ROCKY FLATS PLANT,
PLUTONIUM RECOVERY FACILITY
(Rocky Flats Plant, Building 371)
Located in the northwest portion of the Rocky Flats Plant.
Golden Vicinity
Jefferson County
Colorado

HAER No. CO-83-K

Photographs CO-83-K-1 through CO-83-K-20 were taken by various site photography contractors, dates are indicated in parentheses.

- CO-83-K-1

 AERIAL VIEW, LOOKING SOUTH-SOUTHEAST, OF BUILDING 371
 UNDER CONSTRUCTION. THE BUILDING IS A MULTI-LEVEL
 STRUCTURE, PARTIALLY UNDERGROUND. THE PLUTONIUM
 STORAGE VAULT EXTENDS FROM THE WEST SIDE OF THE
 BUILDING. FOOTERS FOR BUILDING 374 ARE VISIBLE TO THE
 LEFT OF BUILDING 371. (5/2/74)
- AERIAL VIEW, LOOKING NORTH-NORTHEAST, OF THE SUB-BASEMENT OF BUILDING 37I UNDER CONSTRUCTION. THE SUB-BASEMENT, THE BOTTOM LEVEL, IS AN IRREGULARLY SHAPED AREA, CONSISTING PRIMARILY OF THE LOWER PORTION OF THE PLUTONIUM STORAGE VAULT AND ITS TRANSFER, REPAIR, AND STACKER-RETRIEVER MAINTENANCE BAYS. THE PLUTONIUM STORAGE VAULT RUNS EAST-WEST. (7/2/74)
- CO-83-K-3

 AERIAL VIEW, LOOKING SOUTH, OF BUILDING 37I BASEMENT UNDER CONSTRUCTION. THE BASEMENT HOUSES HEATING, VENTILATION, AND AIR CONDITIONING EQUIPMENT AND MECHANICAL UTILITIES, THE UPPER PART OF THE PLUTONIUM STORAGE VAULT AND MAINTENANCE BAY, AND SMALL PLUTONIUM PROCESSING AREAS. THE BASEMENT LEVEL IS DIVIDED INTO NEARLY EQUAL NORTH AND SOUTH PARTS BY THE UPPER PORTION OF THE PLUTONIUM STORAGE VAULT. (10/7/74)
- CO-83-K-4

 AERIAL VIEW, LOOKING SOUTH-SOUTHWEST, OF BUILDING 371
 GROUND FLOOR UNDER CONSTRUCTION. THE GROUND FLOOR,
 WHICH CONTAINS THE MAJORITY OF THE PLUTONIUM
 RECOVERY PROCESSING EQUIPMENT, IS DIVIDED INTO
 COMPARTMENTS BY FIREWALLS, AIRLOCKS, AND USE OF
 NEGATIVE AIR PRESSURE. (I/7/75)

CO-83-K-5	AERIAL VIEW, LOOKING NORTH, OF BUILDING 371 AFTER CONSTRUCTION WAS COMPLETED. (11/7/78)
CO-83-K-6	VIEW OF BUILDING 371 EXTERIOR WALL CONSTRUCTION DETAIL. BUILDING CONSTRUCTION WAS HARDENED TO WITHSTAND THE FORCES IMPOSED BY A DESIGN-BASIS EARTHQUAKE OR TORNADO. (7/1/74)
CO-83-K-7	VIEW OF AIRLOCK ENTRY. AIRLOCK DOUBLE DOORS WERE USED TO KEEP ATMOSPHERES CONFINED TO SPECIFIC AREAS. (6/29/78)
CO-83-K-8	VIEW OF RESIDUE STORAGE DOOR. (6/24/78)
CO-83-K-9	VIEW OF CLOSED CARRIER LINES FOR MOVING CONTAMINATED PROCESS FILTERS AND TRANSPORTING SOLID AND LIQUID MATERIAL SAMPLES. (9/10/96)
CO-83-K-10	VIEW OF PIPING. THE BUILDING HAD OVER 700 MILES OF PIPING, OF WHICH 70 MILES WERE PLUTONIUM PROCESSING LINES. THESE PROCESS LINES RAN THROUGH WALLS AND TRAVERSED SEVERAL FLOORS. (6/29/78)
CO-83-K-11	VIEW OF THE TANKS FOR STORAGE OF PLUTONIUM-CONTAINING SOLUTIONS. THE TANKS ARE IN A VAULT. (1/80)
CO-83-K-12	VIEW OF REMOTELY OPERATED EQUIPMENT. OPERATORS VIEWED THE EQUIPMENT THROUGH A WATER-FILLED WINDOW. (10/8/81)
CO-83-K-13	SIDE VIEW OF THE STACKER-RETRIEVER CRANE FROM THE TRANSFER BAY. THE STACKER-RETRIEVER IS A REMOTELY-OPERATED, MECHANIZED TRANSPORT SYSTEM FOR RETRIEVING PLUTONIUM CONTAINERS FROM THE STORAGE VAULT. (1/80)
CO-83-K-14	END VIEW OF THE PLUTONIUM STORAGE VAULT FROM THE REMOTE CONTROL STATION. THE STACKER-RETRIEVER, A REMOTELY-OPERATED, MECHANIZED TRANSPORT SYSTEM, RETRIEVES CONTAINERS OF PLUTONIUM FROM SAFE GEOMETRY PALLETS STORED ALONG THE LENGTH OF THE VAULT. THE

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STACKER-RETRIEVER	RUNS	ALONG	THE	AISLE	BETWEEN	THE	
PALLETS OF THE STORAGE CHAMBER. (3/2/86)							

- CO-83-K-I5 VIEW OF THE SAFE GEOMETRY PLUTONIUM METAL STORAGE PALLETS FROM THE INSIDE OF AN INPUT-OUTPUT STATION. INDIVIDUAL CONTAINERS OF PLUTONIUM ARE STORED IN THE WATER-FILLED, DOUBLE-WALLED STAINLESS STEEL TUBES THAT ARE WELDED ONTO THE PALLETS. (12/3/88)
- CO-83-K-16 VIEW OF GLOVE BOX WORKSTATIONS WITHIN THE PLUTONIUM BUTTON BREAKOUT ROOM. (9/82)
- CO-83-K-I7 VIEW OF THE FIRST PLUTONIUM BUTTON PRODUCED FROM THE BUILDING 371 AQUEOUS RECOVERY OPERATION. (9/30/83)
- CO-83-K-18 VIEW OF A CANYON IN THE CLEANUP PHASE. CANYONS WERE PROCESSING ROOMS USED TO HOUSE PLUTONIUM HANDLING OPERATIONS THAT WERE NOT CONTAINED WITHIN GLOVE BOXES. CANYONS WERE DESIGNED TO BECOME CONTAMINATED. (5/10/88)
- CO-83-K-19 VIEW OF THE INTERIOR OF BUILDING 374. BUILDING 374, ATTACHED TO BUILDING 371, BECAME OPERATIONAL IN 1978 AS THE NEW RADIOACTIVE WASTE TREATMENT FACILITY, REPLACING BUILDING 774. (6/26/79)
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 PROCESSES. (1/80)